PRODUCT DATA SHEET

ISO 9001 CERTIFIED COMPANY

Hydraulic Seal™

Part #: 41820 41821 41822 41823

950 mL 3.8L 19L 208L

Modern hydraulic systems work under extreme conditions and this can be compounded from leaks requiring continual topping-off of fluid, not to mention running the system low, which can also increase the fluid temperature, causing system damage. Unscheduled maintenance from leaks, including checking fluid level, adding fluids, or repairing leaks costs time and money. Also, you have the environmental impact of all that fluid leaking on the ground, or into the water.

Hydraulic Seal contains a premium high quality durable field proven zinc based additive package along with viscosity modifiers to restore thermal stability and anti-wear additives in the hydraulic system. This additive package has been tested to provide excellent results in Group I, II and III OEM & aftermarket hydraulic petroleum and synthetic fluids. Reduced wear also reduces contamination, heat and downtime, while also improving equipment and fluid life. Additional rust and oxidation inhibitors provide stability improvements which reduces the formation of sludge, varnish and acids keeping the system clean extending service life. Can be used in tractor or equipment with wet brake systems. CAUTION: Do not use in DOT 3, 4, 5 hydraulic brake systems.

Multi-grade, multi-viscosity, multi-functional formulation is designed and approved to work in a wide range of climates with multiple hydraulic oil grades including ISO22, ISO32, ISO46, ISO68, ISO100 and others. Special concentrated formulation does not thicken hydraulic fluid so current oil stays in grade, optimizing all-weather performance. Maintains fluid viscosity even at higher temperatures stabilizing hydraulic pressure.

Shear Stable Polymer additive and viscosity modifiers help keep higher hour and worn systems lubricated during operation and extended shut down times.

High flash point non-silicone type foam inhibitor provides superior foam inhibition to ensure smooth efficient operation and proper system lubrication. Good solubility characteristics will not negatively impact air entrainment.

Pour point depressant is designed to allow proper fluid flow in all temperature ranges.

Seal conditioners recondition and restore hard, brittle, shrunken and worn out seals, o-rings and gaskets reducing fluid leaks during operation. These additives work on both internal and external leaks. This same additive works to protect seals and prevent seals that contact the hydraulic fluid from shrinking and hardening. Chemical polymers work where other stop leaks fail to seal leaks that are caused by normal usage. This includes small wear grooves and pits in the shafts. The polymer forms a film between the seal and the shaft, helping to preventing leaks. Hydraulic Seal works on many elastomer types including polyacrylate elastomers like n-butyl acrylate and Nitrile Rubber (NBR Nitrile Butadiene Rubber, Buna-N).

Developed for both low and high pressure hydraulic systems in industrial and mobile applications.

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Safe To Use On:
Agricultural and Farm
Construction Equipment
Factories
Forestry
Industrial Systems
Machine Tools and Presses
Marine
Mining
Waste Management
Leaks

Works On:
Dump Trucks
Earth Movers and Excavators
Loaders
Forklifts
Refuse
Tractors
Hydraulic Elevators, Hoists and Lifts
Jacks
Snow Plows

Repairs:
Pump Seals
Control Valve Seals
Actuators
Rams
Cylinders
O-ring Boss Hose Fittings
Hydrostatic Transmissions
Seals and O-rings
Other Hydraulic Fluid

Features:
Demulsifiable Detergents
High Dielectric Strength

Benefits:
Superior Rust and Yellow Metal Corrosion Protection
Anti-foam Protection
Good Low Temperature Flow Properties
Provides maximum antiwear protection for pumps, motors, valves and other critical hydraulic components
Outstanding hydrolytic, oxidative and thermal stability
Exceptional Wet and Dry Filterability
Excellent shear stability and stay-in-grade performance
Multi-viscosity characteristics allow use in wide range of ambient temperatures and operating conditions.

Instructions For Use
1) Check level of hydraulic fluid when system is at normal operating temperature.
2) Add the correct amount of product per dosage chart. Do not overfill.
3) Run equipment for at least 15 minutes to mix thoroughly with fluid and activate product to start working.
4) Check hydraulic fluid level to see if leak has stopped. Old accumulation of fluid on outside of system may drip for a few days after leak has stopped.
5) Most leaks are sealed within a few hours of application and usage. If leak continues, mechanical attention is needed and replacement of seals may be required.

Dosage
Normal—Add 30mL of Rislone Hydraulic Seal for every liter of hydraulic fluid capacity.
Worn—In extremely worn systems use up to 60mL per liter of fluid capacity.
Preventative—For preventative maintenance, use 15mL per liter of fluid capacity.

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Part Numbers / Sizes / Package / Treat Amounts

41820	950mL	Bottle	Treats 30 liters
41821	3.8L	Jug	Treats 121 liters
41822	19L	Pail	Treats 633 liters
41823	208L	Drum	Treats 6933 liters

TEST	TEST METHOD	TYPICAL PROPERTIES
Viscosity, cSt. @ 40°C	ASTM D445	45 cSt
Viscosity, cSt. @ 100°C	ASTM D445	7.2 cSt
Viscosity Index	ASTM D445	119
Flash Point COC	ASTM D92	221 °C (430°F)
Pour Point	ASTM D97	-33 °C (-27.4°F)
Dielectric Strength	ASTM D877	36.08 kV
Water Emulsion Characteristics	ASTM D1401	42-38-0 (10) Pass
Color	ASTM D1500	1.3
Total Acid Number TAN	ASTM D664	0.44
Rust Test A & B	ASTM D665 A/B	Pass
Foaming Tendency	ASTM D892	Pass
Filterability with Water	TP-02100	Pass
Filterability without Water	TP-02100	Pass
Parker Dennison	HF-0, HF-1, HF-2	Pass
Eaton	03-401-201	Meets
Stay in Grade Viscosity	D445	ISO 22, 32, 46, 68, 100